

BALANCING CHEMICAL EQUATIONS

Load the simulation *Balancing Chemical Equations*. This link is in your JupiterGrades messages <http://phet.colorado.edu/en/simulation/balancing-chemical-equations>

CRITICAL THINKING QUESTIONS

REVIEW:

MOLECULES: A GROUP OF ATOMS BONDED TOGETHER

ATOMS: THE BASIC UNIT OF A CHEMICAL ELEMENT

- Explore the *Balancing Chemical Equations* simulation. Discuss with your group what you find.
 - What are the tools you can use in the simulation to tell you when an equation is balanced?
Scale or bar graph

- For each balanced reaction, indicate the total number of molecules in the table below.

Reaction	Total Number of Molecules	
	Reactant Side (Left)	Product Side (Right)
Make Ammonia	4	2
Separate Water	2	3
Combust Methane	3	3

- Is the number of total molecules on the left side of a balanced equation always equal to the number of total molecules on the right side of the equation? Explain your answer.
No because the atoms rearrange in a chemical reaction to form new molecules.

- For each balanced reaction, indicate the total number of atoms in the table below.

Reaction	Total Number of Atoms	
	Reactant Side (Left)	Product Side (Right)
Make Ammonia	8	8
Separate Water	6	6
Combust Methane	9	9

- Is the number of total atoms on the left side of a balanced equation always equal to the number of total atoms on the right side of the equation?
Yes
- What is the same on the left and right side of a balanced equation? Explain your answer.
The numbers are all the same because there balanced.
- As a group, play level 1 of the balancing equation game. Write down the strategies your group uses to balance chemical equations.

Guided Inquiry Balancing Chemical Equations

G Thomas



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Table of Contents Guided Inquiry Balancing Chemical Equations

1. Understanding the eBook Guided Inquiry Balancing Chemical Equations
 - The Rise of Digital Reading Guided Inquiry Balancing Chemical Equations
 - Advantages of eBooks Over Traditional Books
2. Identifying Guided Inquiry Balancing Chemical Equations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guided Inquiry Balancing Chemical Equations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guided Inquiry Balancing Chemical Equations
 - Personalized Recommendations
 - Guided Inquiry Balancing Chemical Equations User Reviews and Ratings
 - Guided Inquiry Balancing Chemical Equations and Bestseller Lists
5. Accessing Guided Inquiry Balancing Chemical Equations Free and Paid eBooks
 - Guided Inquiry Balancing Chemical Equations Public Domain eBooks
 - Guided Inquiry Balancing Chemical Equations eBook Subscription Services
 - Guided Inquiry Balancing Chemical Equations Budget-Friendly Options

6. Navigating Guided Inquiry Balancing Chemical Equations eBook Formats
 - ePub, PDF, MOBI, and More
 - Guided Inquiry Balancing Chemical Equations Compatibility with Devices
 - Guided Inquiry Balancing Chemical Equations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guided Inquiry Balancing Chemical Equations
 - Highlighting and Note-Taking Guided Inquiry Balancing Chemical Equations
 - Interactive Elements Guided Inquiry Balancing Chemical Equations
8. Staying Engaged with Guided Inquiry Balancing Chemical Equations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guided Inquiry Balancing Chemical Equations
9. Balancing eBooks and Physical Books Guided Inquiry Balancing Chemical Equations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guided Inquiry Balancing Chemical Equations
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Guided Inquiry Balancing Chemical Equations
 - Setting Reading Goals Guided Inquiry Balancing Chemical Equations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guided Inquiry Balancing Chemical Equations
 - Fact-Checking eBook Content of Guided Inquiry Balancing Chemical Equations
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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